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Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, No 1, 1954, p 200

I. V. PETRYANOV-SOKOLOV'S WORK IN THE FIELD OF AEROSOLS

I. V. Petryanov-Sokolov was elected Correspon∉ing Member of the Academy of Sciences USSR in the speciality of general and inorganic chemistry at a meeting of the Department of Chemical Sciences of the Academy on 19-20 Octu-

I. V. Petryanov-Sokolov is a well-known specialist in the physical chemistry of systems dispersed in the air. He developed new and precise methods for the qualitative investigation of aerosols, which enable one to establish the distribution of particles of aerosols according to size and the distribution of electrical charges on aerosol particles. These methods, which received general recognition, aided Permanov-Sokolov and his cellaborators in the formulation and solution of a number of important problems in the field of electrical properties of aerosols, i.e., problems pertaining to the mechanism of the formation of electric charges on aerosol particles and the laws of the distribution of these charges on the particles, the kinetics of the charging of aerosols in an ionized atmosphere, and the stability of charged aerosols.

An extensive series of investigations carried out by I. V. Petryanov-Sokolov dealt with the detailed mechanism of the formation of charges on aerosol particles obtained by dispersing liquids. The complex of these investigations developed into an independent subdivision of the science of aerosols, dealing with the electrical properties of systems dispersed in

Very important results were obtained by Petryanov-Sckolov in the study of general problems of the stability of aerosols and of the mechanism of the formation by the condensation process of systems dispersed in the air. A large number of investigations done by him were devoted to problems connected with the precipitation and capture of particles dispersed in the air. Some of the new methods developed by him for combating [harmful] aerosols are of practical value.

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